



INTERNATIONAL CIVIL AVIATION ORGANIZATION SAT-14- WP/ 17

**Fourteenth Meeting on the Improvement of Air Traffic Services over the South Atlantic
SAT-14**

(Montevideo, URUGAY, 7 to 9 May 2008)

(Presented by ASECNA)

SUMMARY

The present Working Paper gives a progress report on the implementation of rationalized AFS Projects in ASECNA area particularly those related to SAT. After SATA 13 and APIRG 15 meeting, ASECNA has planned to overcome AFS deficiencies and is involved in regional projects. The interoperability between AFS systems requires close cooperative actions between ANSP.

Agenda Item 2: Communication Navigation Surveillance (CNS)

Aeronautical Fixed Service improvement in ASECNA

1. Interoperability between Aeronautical VSAT Systems for the Improvement of the Aeronautical Fixed Service

Since the last meeting the following planned circuits have been implemented / improved or are in an advanced project status through either AFISNET or CAFSAT satellite links:

Links and Circuits	Supported AFS Services	Date of implementation	Link Equipments	Service status
Nouakchott-Casablanca	AFTN-ATS/DS	December 2007	CAFSAT node in Nouakchott	Ok (AFTN)
Nouakchott – Las Palmas	AFTN-ATS/DS	September 2007	CAFSAT node in Nouakchott	Ok
Nouadhibou - Las Palmas	AFTN-ATS/DS	September 2008	AFISNET node in Las Palmas	In progress
Dakar-Luanda	ATS/DS	March 2008	Interconnection AFISNET/SADC2	On trials
Abidjan Luanda	ATS/DS	May	Interconnection AFISNET/SADC2	In progress
Dakar – Bissau	AFTN-ATS/DS)	January 2006	AFISNET Station in Bissau	Ok
Dakar – Banjul	AFTN-ATS/DS)	January 2007	AFISNET Station in Banjul	Ok

2. Other on going projects to solve the deficiencies

2.1 Implementation of an ATS/DS link between Piarco ACC and Dakar ACC

The WACAF office has transmitted to ASECNA a request from Trinidad and Tobago Civil Aviation Authority for the implementation an ATS Speech between Piarco ACC and Dakar ACC. ASECNA has a backbone satellite based sub networks (CAFSAT and AFISNET) and agree to go, ahead for the implementation of the link.

2.2 Modernization of Automatic Message Switching Systems

The renewal of the Automatic Messages Switching system is in progress at Abidjan (already equipped and operational) and Dakar which will be equipped by the end of July 2008. The factory acceptance of the Dakar equipments was recently conducted from 21 to 25 April 2008.

These equipments are designed with an option to comply with AMHS functionalities.

2.3 Implementation of OLDI and AIDC

Dakar canter is equipped with ADSC/CPDLC EUROCAT X system manufactured by Thales (***see ASECNA WP in Agenda item 3***).

This system is designed to support AIDC and OLDI functionalities.

3. Other technical disposals to solve the deficiencies

In addition to its efforts for the implementation of the AFTN and ATS/DS circuits, ASECNA carried out improvement actions in:

- Upgrading the transmission rate of the most AFTN circuits in accordance with APIRG/12 conclusion 12/13 .
- Implementing a Frame relay network in accordance with APIRG/13 conclusion 13/10;
- Implementing SATPHONE as ATS/DS backup in all its SAT concerned centres;
- Conducting a technical and operational internal evaluation of AFS and its related equipments;
- Upgrading continually the backbone of its network to suit the technology evolution.

4. Conclusion

The meeting is invited:

- To note the information given above
- To encourage the cooperative actions regarding the AFS circuits implementation/improvement